



ROGERS SPRAYERS INC.

141 - 105th Street East
Saskatoon, SK S7N 1Z2
Canada

Phone: (306) 975-0500
Fax: (306) 975-0499
Email: info@rogerssprayers.com
Web: www.rogerssprayers.com

FY325 / FY425

Heavy Duty Farm Yard Sprayer (3 and 4 Nozzle, 25 USG Tank)



Assembly, Parts and Operator's Manual

Version FY-2504

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Visit our website, www.rogerssprayers.com, for additional models.

Safety

Many people die or suffer serious injury in job related accidents every year due to carelessness. Know your machinery and be aware of potential hazards. Put safety first in all your operations.

Review all instructions and procedures outlined in this manual annually. Every operator must familiarize himself with the operating instructions of the sprayer.

Operational Safety

Shut down sprayer and power unit and wait for all parts to stop before adjusting, cleaning, or lubricating the power unit or sprayer.

Before spraying a field familiarize yourself with any rocks, debris, trees, ditches or gullies that may be potentially dangerous. Plan the spraying route to avoid these hazards.

Spray only chemicals that the unit was designed for, (ie turf application). Do not use products for which the unit was not designed, (ie PAINT, sealants, cleaning fluids, dust inhibitors, ice surfaces).

Minimize Chemical Drift

The **Windfoil** sprayer was designed in a wind tunnel to control air flow around and behind the sprayer minimizing drift to allow safer spraying in windy conditions.

Drift can blow off a field after it has been sprayed, especially in high winds. Reasonable caution should be taken in order to spray effectively and safely.

For maximum drift control, keep curtain in contact with the ground to ensure a seal to it. Drift control of the *Windfoil* is less effective when the wind blows the curtain off the crop canopy breaking the seal between the curtain and the crop.

General Spraying Information

Application Tips

Always use clean filtered water in the sprayer tank.

Your **Windfoil** Drift Containment Spray System (DCSS) comes standard with stainless steel insert tips.

The FY Sprayer is equipped with 80° spray tips, spaced at 16". Tips are mounted with self-aligning ¼ turn caps for easy removal or change.

Check the flow rate from all nozzles using the capacity calibration technique; see the Calibration section for tables and instructions. Use clean filtered water for all calibration testing. Adjust the sprayer pressure to get the proper flow rate. The flow meter is not accurate enough in absolute terms to be used as a flow meter. In relative terms they are very accurate.

<p>Caution: Conventional tips are rated at 40 psi (3 bar), for example a 8004 tip at 40 psi (3 bar) delivers 0.4 US gal/min (1.5 litres/min) . Only conventional 80° tips are recommended for the Windfoil FY series. Wider angle tips (110°) have a wider pattern than 80° and will hit the curtain at the ends of the boom and are not recommended.</p>

Nozzles

Despite being the most important component for accurate uniform spraying application, nozzles are often neglected and abused.

Nozzle flow rate depends on effective orifice size and pressure. Spray tip manufacturers have supplied tables of nozzle application rates at various pressures, for the best results it is recommended that you follow these guidelines.

The rule of thumb is that as you increase the pressure to your unit the average droplet size decreases. Normally with conventional open boom sprayers large droplets are used to control drift but large droplets can roll off plants without sticking. With the **Windfoil** covered spray system you will be able to spray with smaller droplets, increase coverage and not worry about drift.

The spray patterns must overlap for even coverage but should not interfere with one another. Nozzles are set at a 10° angle so that one edge of its pattern will be just behind the edge of its adjacent spray pattern, evading interference with each other.

Typically, as a tip wears, the spray pattern distorts, output volumes usually increase and the droplet characteristics change. Recalibration may correct for output changes, but cannot correct for spray pattern changes or the drop size generated.

Caution: When spraying next to a flower bed, do not spray over the turf edge as the spray will go under the curtain and onto the flowers.

Diaphragm Check Valve Nozzle Bodies

Diaphragm check valves close at approximately 15 psi (1 bar) to prevent excessive dripping. Should the cap on the valve loosen or the check valve diaphragm become misaligned, the body may leak. Stop the leak by, tightening the check valve cap or remove the cap and inspect the seal for damage or improper assembly.

To check for defective check valves when the spraying stop control has been actuated, the volume that drips from each nozzle should not exceed 2ml timed over a 5 minute period. The measuring is to start 8 seconds after the flow to the spray boom is shut off.

Nozzle caps are attached by engaging the cap and turning clockwise about a third of a turn. Self-aligning caps have a slot to align the tips. Ensure that the tips fit down into the slotted hole before installing caps on the diaphragm nozzle body assembly with the tip screens.

Non-aligning caps are also available for special tips.

Calibration

As a tip wears recalibration may be required. To calibrate, operate the sprayer at the desired pressure. Collect the output from each nozzle for 60 seconds, using an accurate measuring cup. Record the output from each nozzle. Replace nozzles that are more than 5% above or below the average reading, or have a visibly distorted spray pattern.

Run a speed test in the area to be sprayed, with a full tank. The sprayer must be at operating speed before starting the test run. To determine the speed, mark off a distance as found on one of the tables below. Spray this distance, carefully noting and recording the time to cover the distance.

The actual speed can be found for the specific distance traveled and time to travel, using the table.

After the nozzles have been individually checked, the sprayer should be calibrated to determine the correct speed for the desired application volume. To get area covered, multiply the width X distance.

Table 1: Time in Seconds to Travel Distance of:

	10	25	50	100	200
mph	(ft)	(ft)	(ft)	(ft)	(ft)
1	6.8	17.0	34.1	68.2	136.0
1.5	4.5	11.4	22.7	45.5	90.9
2	3.4	8.5	17.0	34.1	68.2
2.5	2.7	6.8	13.6	27.3	54.5
3	2.3	5.7	11.4	22.7	45.5
4	1.7	4.3	8.5	17.0	34.1
5	1.4	3.4	6.8	13.6	27.3
6	1.1	2.8	5.7	11.4	22.7

Table 2: Time in Seconds to Travel a Distance of:

	10	25	50	100	200
Km/h	(m)	(m)	(m)	(m)	(m)
1	36.0	90.0	180.0	360.0	720.0
1.5	24.0	60.0	120.0	240.0	480.0
2	18.0	45.0	90.0	180.0	360.0
2.5	14.4	36.0	72.0	144.0	288.0
3	12.0	30.0	60.0	120.0	240.0
4	9.0	22.5	45.0	90.0	180.0
5	7.2	18.0	36.0	72.0	144.0
6	6.0	15.0	30.0	60.0	120.0

Note: Tip pressure is usually less than the pressure at the pump. Losses occur in valves, hoses, etc. Always check the flow by the above calibration method.

General Maintenance

Cleaning

Sprayers need to be cleaned to prevent corrosion and cross contamination of chemicals. Trace amounts of one chemical can react with another or carry over to the next spraying and cause crop damage, especially with pesticides. Long exposures with even small amounts of some chemicals can damage sprayer components either by corrosion or gum deposits. If you spray crops that are very susceptible to injury from the last chemical used (ie vegetables, turf, and ornamentals) clean the unit especially well.

Always try to end the day with an empty tank; avoid contamination of water supplies and injury to plants or animals. Do not make puddles that might be accessible to children, pets, farm animals, or wildlife. Flush with clean water preferably after each day's operation. If you plan to use the same material over several days most chemicals may be kept in the tank overnight, labels on the chemical usually indicates which may not. Rinse the outside of the sprayer. Surfactants combined with chemicals, when they are compatible, will provide some cleaning action in the sprayer.

Some chemical combinations (especially if oil is used) may produce a putty type paste (buttering out) in the sprayer tank and components; flushing with water after each load may prevent an accumulation. If water alone does not dissolve and remove the buildup, add solvent, kerosene, or other low flammable solvent; allow paste to dissolve, then agitate and flush. Next, flush with detergent and finally with clean water. Check with your chemical agent.

Whenever pesticides are changed, or before sprayer storage, clean sprayers thoroughly with a cleaning solution. The solution used depends on the chemical to be removed from the sprayer. Check the chemical label for cleaning instructions.

First flush with water, then add the cleaning solution to the tank and thoroughly agitate before flushing. Always flush with clean water to remove the cleaning solution. Remove nozzle tips and screens; clean them in a strong detergent solution or kerosene, using a soft brush such as an old toothbrush. Never use a metal probe to clean the orifice of a spray tip!

Follow the same safety precautions during cleaning as for applications. Use a respirator, rubber gloves, or other protective gear as may be directed by label instructions.

If a nozzle becomes blocked, turn the sprayer off. Note that the spray lines could still be pressurized therefore prior to removing the cap on the nozzle body, proper safety equipment should be worn, (ie gloves, eye protection, etc).

Sunshine

Many plastic sprayer parts are degraded by ultra violet light, especially the nozzle flow indicators. Store the sprayer in the shade to extend the length of service.

Winterizing

After the sprayer is thoroughly cleaned, put 2-5 gallons (7-19 litres) of rust inhibitor or antifreeze in the tank prior to the final flushing to help prevent corrosion. As the water is pumped from the sprayer, the antifreeze will leave a protective coating on the inside of the tank, pump, and plumbing. Remove nozzle tips, screens and no-drip valves (if used) and store them in a can of light oil such as diesel fuel or kerosene to prevent corrosion. Close nozzle openings with tape to prevent dirt, insects, mice, or other contaminants from entering.

During the final cleaning, completely check the sprayer. Look at the hoses, clamps, connections, nozzle tips, and screens for needed replacements. Store the sprayer in a reasonably clean and dry building.

Operation

With the unit fully assembled, attach the battery clips to the battery on your power unit. (be sure that the toggle switch bar is off, pump should not run once clips are on battery). (NOTE: red clip is for positive post on battery). With liquid in the tank, loosen the pressure regulator fully, ie loosen lock nut on the regulator and turn top knob on pressure regulator counter clockwise. Next turn unit on by flipping the switch on, slowly tighten pressure regulator (turn clockwise) until pressure on gauge rises to 40 psi (3 bar). (NOTE: to obtain optimum pattern, you should always try and operate your spray nozzles as close to 40 psi (3bar) as possible). Due to losses in the system you might want to run your system at 42-43 psi, this should give you close to 40 psi at the tip. (NOTE: Be careful not to run the pump on an empty tank, this could cause a vapour lock in the system. To fix the problem, make sure there is something in the tank, remove the output supply hose on the pump and start the system, take precautions as your chemical will start coming through the pump, once the liquid starts flowing shut the system off, reconnect the line and continue spraying). Watch the ball in the flow indicator as you spray, If the ball is not floating it indicates tips that are plugged or partially plugged. Check and clean the appropriate tip(s). If the ball is right at the top, the flow rate is too high. Replace the ball with the required ball for the tips (see the flow monitor page).

Test the unit using clear water on a firm surface such as asphalt or concrete before using spray solution. This will illustrate the effectiveness of the individual spray patterns.

Note: As this is a self contained sprayer with a small tank and does not have a separate fresh water tank, it is recommended that when filling and working with chemicals a fresh water supply is always kept in close proximity for safety reasons.

Farm Yard Tip Ranges for Pumps

BOOM	PUMP		Open Flow (gpm)	TIPS (80 degree only)						
	Part #	Description		8001	80015	8002	8003	8004	8005	8006
FY325	14498	STANDARD DEL	2.0	YES	YES	YES	YES	NO	NO	NO
FY325HF	14181	HIGH FLOW DEL	5.0	YES	YES	YES	YES	YES	YES	YES
SPRAY TIME TO EMPTY(MINUTES)				83	56	42	28	21	17	14

FY BOOM	PUMP		FLOW (gpm)	TIPS (80 degree only)						
	Part #	Description		8001	80015	8002	8003	8004	8005	8006
FY425	14498	STANDARD DEL	2.0	YES	YES	YES	NO	NO	NO	NO
FY425HF	14181	HIGH FLOW DEL	5.0	YES	YES	YES	YES	YES	YES	NO
SPRAY TIME TO EMPTY(MINUTES)				63	42	31	21	16	13	N/A

Metric Application Rates at 16" Nozzle Spacing (0.5 meters) 80 Degree Tips

Rogers Part #	Tip Number	Tip Mfg	Liquid Press psi	Liquid Press bars	Cap /noz. gpm	Cap /noz. lpm	U. S. GALLONS PER ACRE					Liters/Hectare				
							2.5	3	4	5	7	4	4.8	6.4	8	11.2
							mph	mph	mph	mph	mph	kph	kph	kph	kph	kph
01369	8001VS 100 mesh	Teejet	30	2.07	0.087	0.328	12.9	10.7	8.0	6.4	4.6	120	100	75	60	43
			40	2.76	0.100	0.379	14.9	12.4	9.3	7.4	5.3	139	116	87	69	50
			50	3.45	0.112	0.423	16.6	13.8	10.4	8.3	5.9	155	129	97	78	55
			60	4.14	0.122	0.464	18.2	15.2	11.4	9.1	6.5	170	142	106	85	61
00827 15287	80015VS or AXI-80015 100 mesh	Teejet	30	2.07	0.130	0.492	19.3	16.1	12.1	9.6	6.9	180	150	113	90	64
			40	2.76	0.150	0.568	22.3	18.6	13.9	11.1	8.0	208	174	130	104	74
		Albuz	50	3.45	0.168	0.635	24.9	20.8	15.6	12.5	8.9	233	194	146	116	83
			60	4.14	0.184	0.695	27.3	22.7	17.1	13.6	9.7	255	213	159	128	91
05876 14384	8002VS or AXI-8002 50 mesh	Teejet	30	2.07	0.173	0.656	25.7	21.4	16.1	12.9	9.2	240	200	150	120	86
			40	2.76	0.200	0.757	29.7	24.8	18.6	14.9	10.6	278	231	174	139	99
		Albuz	50	3.45	0.224	0.846	33.2	27.7	20.8	16.6	11.9	310	259	194	155	111
			60	4.14	0.245	0.927	36.4	30.3	22.7	18.2	13.0	340	283	213	170	121
05877 14385	8003VS or AXI-8003 50 mesh	Teejet	30	2.07	0.260	0.983	38.6	32.2	24.1	19.3	13.8	361	301	225	180	129
			40	2.76	0.300	1.136	44.6	37.1	27.8	22.3	15.9	417	347	260	208	149
		Albuz	50	3.45	0.335	1.270	49.8	41.5	31.1	24.9	17.8	466	388	291	233	166
			60	4.14	0.367	1.391	54.6	45.5	34.1	27.3	19.5	510	425	319	255	182
05878 14061	8004VS or AXI-8004 50 mesh	Teejet	30	2.07	0.346	1.311	51.4	42.9	32.2	25.7	18.4	481	401	301	240	172
			40	2.76	0.400	1.514	59.4	49.5	37.1	29.7	21.2	555	463	347	278	198
		Albuz	50	3.45	0.447	1.693	66.4	55.3	41.5	33.2	23.7	621	517	388	310	222
			60	4.14	0.490	1.854	72.7	60.6	45.5	36.4	26.0	680	567	425	340	243
05879 14386	8005VS or AXI-8005 50 mesh	Teejet	30	2.07	0.433	1.639	64.3	53.6	40.2	32.2	23.0	601	501	376	301	215
			40	2.76	0.500	1.893	74.3	61.9	46.4	37.1	26.5	694	579	434	347	248
		Albuz	50	3.45	0.559	2.116	83.0	69.2	51.9	41.5	29.6	776	647	485	388	277
			60	4.14	0.612	2.318	90.9	75.8	56.8	45.5	32.5	850	709	531	425	304
05880 14387	8006VS or AXI-8006 50 mesh	Teejet	30	2.07	0.520	1.967	77.2	64.3	48.2	38.6	27.6	721	601	451	361	258
			40	2.76	0.600	2.271	89.1	74.3	55.7	44.6	31.8	833	694	521	417	298
		Albuz	50	3.45	0.671	2.539	99.6	83.0	62.3	49.8	35.6	931	776	582	466	333
			60	4.14	0.735	2.781	109.1	90.9	68.2	54.6	39.0	1020	850	638	510	364

Application Rates, 16" Spacing 80 Deg. Tips

Rogers Part #	Tip Number	Liquid Press psi	Capacity 1 nozzle gpm	U. S. GALLONS PER ACRE							U. S. GALLONS PER 1000 SQ. FT.							LITERS PER 1000 SQ. FT.						
				2.5 mph	3 mph	4 mph	5 mph	7 mph	2.5 mph	3 mph	4 mph	5 mph	7 mph	2.5 mph	3 mph	4 mph	5 mph	7 mph	2.5 mph	3 mph	4 mph	5 mph	7 mph	
05872	800067SS (200 mesh)	30	0.058	8.6	7.2	5.4	4.3	3.1	0.20	0.16	0.12	0.10	0.07	2.07	0.75	0.62	0.47	0.37	0.27					
		40	0.067	9.9	8.3	6.2	5.0	3.6	0.23	0.19	0.14	0.11	0.08	2.76	0.86	0.72	0.54	0.43	0.31					
		50	0.075	11.1	9.3	7.0	5.6	4.0	0.25	0.21	0.16	0.13	0.09	3.45	0.96	0.80	0.60	0.48	0.34					
		60	0.082	12.2	10.2	7.6	6.1	4.4	0.28	0.23	0.17	0.14	0.10	4.14	1.06	0.88	0.66	0.53	0.38					
01369	8001VS (100 mesh)	30	0.087	12.9	10.7	8.0	6.4	4.6	0.29	0.25	0.18	0.15	0.11	2.07	1.11	0.93	0.70	0.56	0.40					
		40	0.100	14.9	12.4	9.3	7.4	5.3	0.34	0.28	0.21	0.17	0.12	2.76	1.29	1.07	0.80	0.64	0.46					
		50	0.112	16.6	13.8	10.4	8.3	5.9	0.38	0.32	0.24	0.19	0.14	3.45	1.44	1.20	0.90	0.72	0.51					
		60	0.122	18.2	15.2	11.4	9.1	6.5	0.42	0.35	0.26	0.21	0.15	4.14	1.58	1.31	0.99	0.79	0.56					
00827	80015VS	30	0.130	19.3	16.1	12.1	9.6	6.9	0.44	0.37	0.28	0.22	0.16	2.07	1.67	1.39	1.04	0.84	0.60					
15287	or AXI-80015 (100 mesh)	40	0.150	22.3	18.6	13.9	11.1	8.0	0.51	0.43	0.32	0.26	0.18	2.76	1.93	1.61	1.21	0.97	0.69					
		50	0.168	24.9	20.8	15.6	12.5	8.9	0.57	0.48	0.36	0.29	0.20	3.45	2.16	1.80	1.35	1.08	0.77					
		60	0.184	27.3	22.7	17.1	13.6	9.7	0.62	0.52	0.39	0.31	0.22	4.14	2.36	1.97	1.48	1.18	0.84					
05876	8002VS	30	0.173	25.7	21.4	16.1	12.9	9.2	0.59	0.49	0.37	0.29	0.21	2.07	2.23	1.86	1.39	1.11	0.80					
	or	40	0.200	29.7	24.8	18.6	14.9	10.6	0.68	0.57	0.43	0.34	0.24	2.76	2.57	2.14	1.61	1.29	0.92					
14384	AXI-8002 (50 mesh)	50	0.224	33.2	27.7	20.8	16.6	11.9	0.76	0.63	0.48	0.38	0.27	3.45	2.88	2.40	1.80	1.44	1.03					
		60	0.245	36.4	30.3	22.7	18.2	13.0	0.83	0.69	0.52	0.42	0.30	4.14	3.15	2.63	1.97	1.58	1.13					
05877	8003VS	30	0.260	38.6	32.2	24.1	19.3	13.8	0.88	0.74	0.55	0.44	0.32	2.07	3.34	2.79	2.09	1.67	1.19					
	or	40	0.300	44.6	37.1	27.8	22.3	15.9	1.02	0.85	0.64	0.51	0.36	2.76	3.86	3.22	2.41	1.93	1.38					
14385	AXI-8003 (50 mesh)	50	0.335	49.8	41.5	31.1	24.9	17.8	1.14	0.95	0.71	0.57	0.41	3.45	4.32	3.60	2.70	2.16	1.54					
		60	0.367	54.6	45.5	34.1	27.3	19.5	1.25	1.04	0.78	0.62	0.45	4.14	4.73	3.94	2.96	2.36	1.69					
05878	8004VS	30	0.346	51.4	42.9	32.2	25.7	18.4	1.18	0.98	0.74	0.59	0.42	2.07	4.46	3.71	2.79	2.23	1.59					
	or	40	0.400	59.4	49.5	37.1	29.7	21.2	1.36	1.13	0.85	0.68	0.49	2.76	5.15	4.29	3.22	2.57	1.84					
14061	AXI-8004 (50 mesh)	50	0.447	66.4	55.3	41.5	33.2	23.7	1.52	1.27	0.95	0.76	0.54	3.45	5.76	4.80	3.60	2.88	2.06					
		60	0.490	72.7	60.6	45.5	36.4	26.0	1.67	1.39	1.04	0.83	0.59	4.14	6.30	5.25	3.94	3.15	2.25					
05879	8005VS	30	0.433	64.3	53.6	40.2	32.2	23.0	1.47	1.23	0.92	0.74	0.53	2.07	5.57	4.64	3.48	2.79	1.99					
	or	40	0.500	74.3	61.9	46.4	37.1	26.5	1.70	1.42	1.06	0.85	0.61	2.76	6.43	5.36	4.02	3.22	2.30					
14386	AXI-8005 (50 mesh)	50	0.559	83.0	69.2	51.9	41.5	29.6	1.90	1.58	1.19	0.95	0.68	3.45	7.19	5.99	4.50	3.60	2.57					
		60	0.612	90.9	75.8	56.8	45.5	32.5	2.08	1.74	1.30	1.04	0.74	4.14	7.88	6.57	4.93	3.94	2.81					
05880	8006VS	30	0.520	77.2	64.3	48.2	38.6	27.6	1.77	1.47	1.10	0.88	0.63	2.07	6.69	5.57	4.18	3.34	2.39					
	or	40	0.600	89.1	74.3	55.7	44.6	31.8	2.04	1.70	1.28	1.02	0.73	2.76	7.72	6.43	4.83	3.86	2.76					
14387	AXI-8006 (50 mesh)	50	0.671	99.6	83.0	62.3	49.8	35.6	2.28	1.90	1.43	1.14	0.81	3.45	8.63	7.19	5.40	4.32	3.08					
		60	0.735	109.1	90.9	68.2	54.6	39.0	2.50	2.08	1.56	1.25	0.89	4.14	9.46	7.88	5.91	4.73	3.38					



Figure 1: Wheel assembly



Figure 2: Wheel assembly

First take components out of box. With boom upside down on saw horses or table install wheel assemblies. Return to upright position and mount airfoil as shown in figure 3. Take pressure gauge out of box and install on flow monitor. Position flow monitor vertically as shown in figure 4 and connect feed hose. *** If installing a wand kit see figures 11-16 on pages 10 and 11***

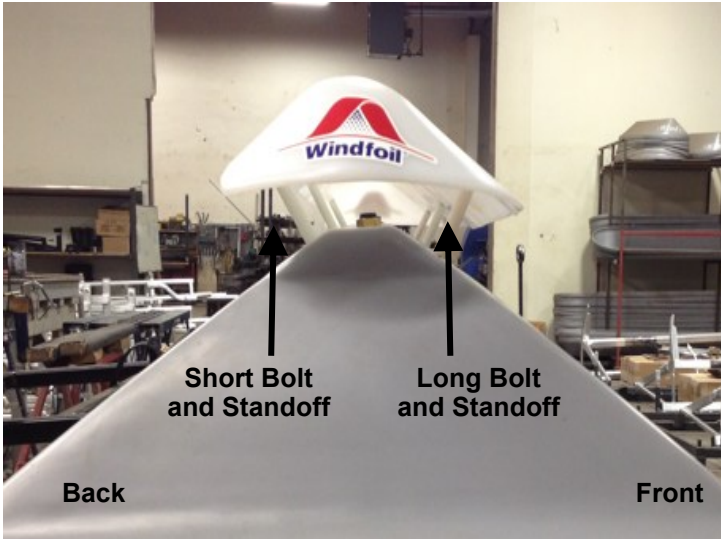


Figure 3: Airfoil assembly



Figure 4: Flow monitor and pressure gauge



Figure 5: Mounting hitch on boom



Figure 6: Mount tank and secure with tank locks

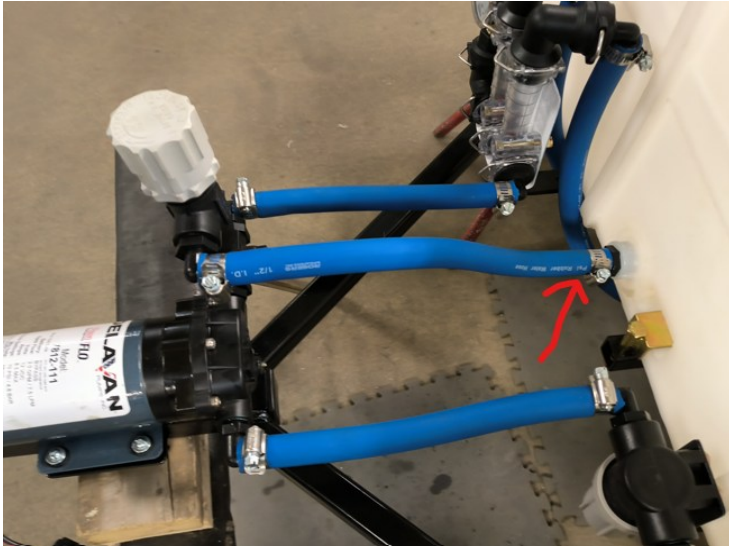


Figure 7: Attaching return line from Pressure Regulator

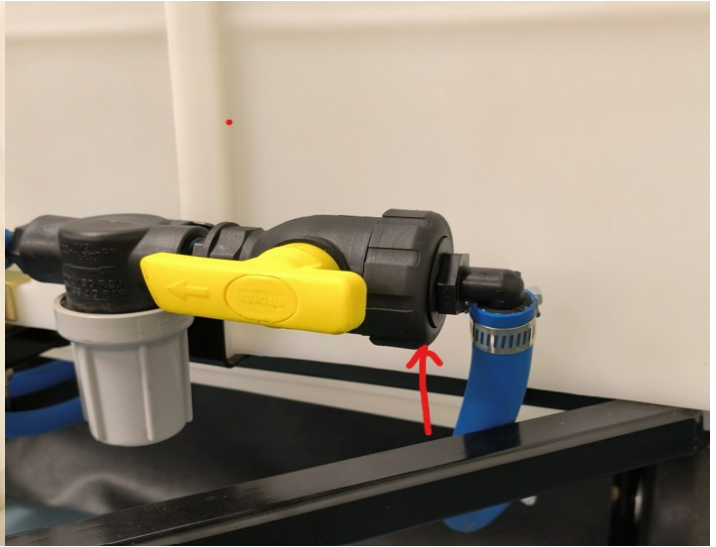


Figure 8: Attaching feed line from tank to valve



Figure 9: Attaching nozzle feed hose to flow monitor



Figure 10: Main plumbing Assembly

*****The following instructions and pictures are for the installation of the wand kit*****



STEP 1: REMOVE TANK OR JUST LOSEN IT SO THAT IT CAN BE SLIGHTLY LIFTED.

STEP 2: REMOVE PLUG IN BOTTOM OF PRESSURE REGULATOR TEE.

STEP 3: INSTALL MALE END OF RED HOSE FITTING INTO BASE OF TEE AS SHOW IN FIGURE 1.

Figure 11



Figure 12



Figure 13



Figure 14

STEP 4: ATTACH RED HOSE TO FRAME USING CLAMPS AND TEK SCREWS PROVIDED. HOLES SHOULD BE PREDRILLED. IT IS SUGGESTED TO HANG THE CLAMP DOWNWARD. SEE FIGURES 2, 3 & 4.

HOLE #1 IS BEHIND THE FLOWINDICATOR

HOLE #2 IS IN THE SIDE FRAME, MAKE SURE TO LEAVE ENOUGH SLACK SO THE TANK WILL FIT BACK ON THE FRAME.

HOSE #3&4 ARE UP WHERE THE HITCH MOUNTS TO THE SHROUD FRAME.



Figure 15



Figure 16

STEP 5: REMOVE HOSE BETWEEN THE PRESSURE REGULATOR AND THE BASE OF THE FLOWMONITOR, REPLACE WITH BRASS VALVE ASSEMBLY (SEE FIGURE 5).

STEP 6: INSTALL BLUE COIL HOSE IN ONE END OF RED HOSE AND OTHER END IN SPRAY WAND.

STEP 7: ATTACH ONE RUBBER CLAMP TO CENTER BOLT OF AIRFOIL ON FY425, (NEED TO DRILL NEW HOLE AND USE NEW BOLT ON FY325 MODEL) AND SECOND CLAMP ON TOP BOLT OF HITCH, (SEE FIGURE 6)

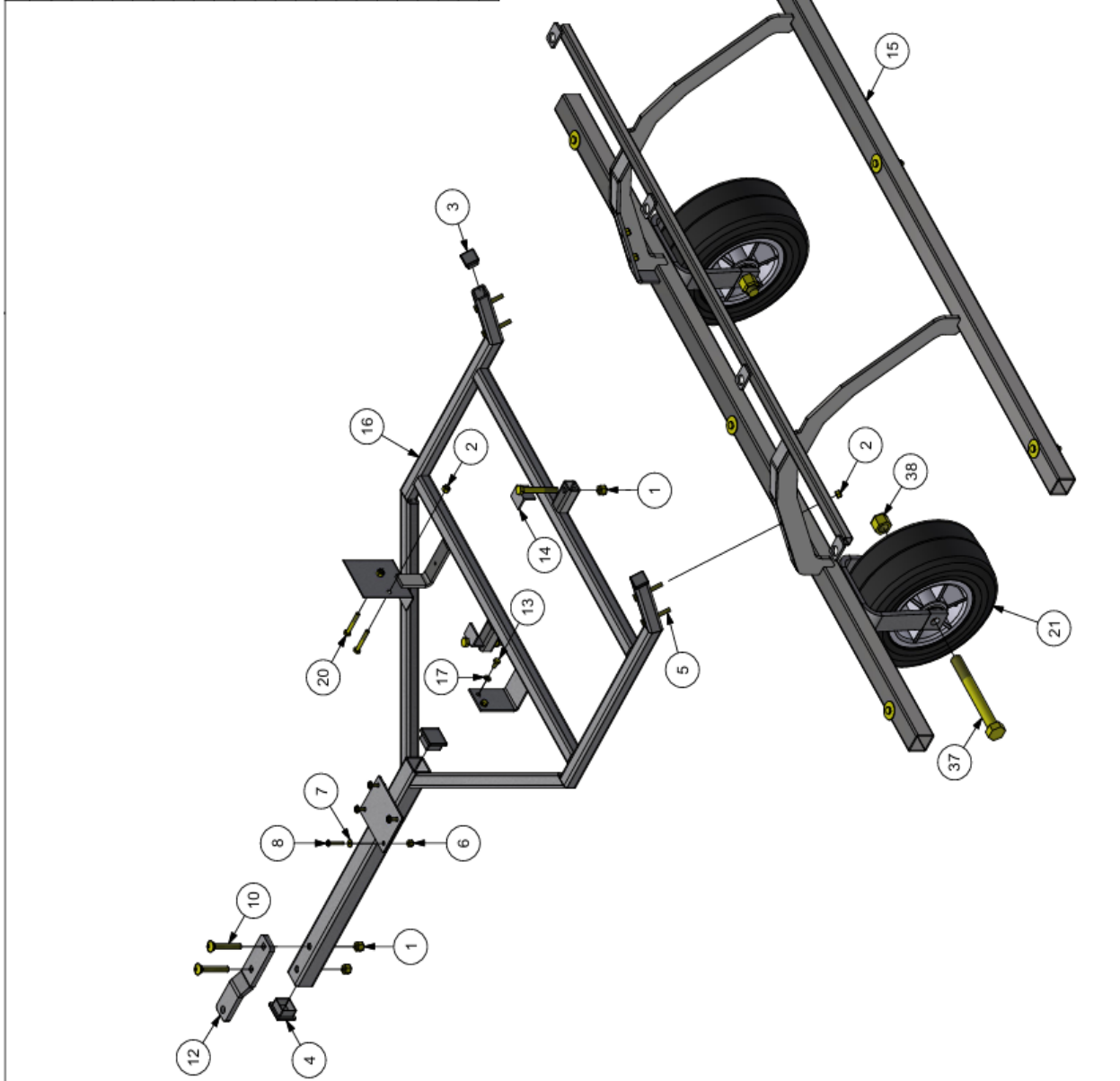
FY425 Shroud Assembly Part # 15885

PARTS LIST		
ITEM	QTY	DESCRIPTION
1	6	NUT NYLOCK 1/4NC PLD
2	12	WASHER FLAT SAE 1/4
3	3	BOLT 1/4NCX3-1/2 PLD
4	1	AIRFOIL 68" PREPPED
5	3	AIRFOIL STANDOFF BACK TUBE
6	3	AIRFOIL STANDOFF FRONT TUBE
7	3	BOLT 1/4NCX4-1/2 PLD
8	1	SHROUD FY 4NOZ W/EXT
9	1	FLEXI-SHIELD 11WX190
10	1	FLEXI-SHIELD 11WX30

DRAWN:	DARSHAN SEJPAL	ROGERS SPRAYERS INC.
DATE CREATED:		TITLE
PROJECT:	FARM YARDER	SHROUD ASSEMBLY FY425
DATE CHECKED:	3/14/2018	DWG NO
		15885
		SCALE
		1/15
		MATERIAL
		SIZE
		A

FY425 Frame Assembly Part # 15886


PARTS LIST		DESCRIPTION
ITEM	QTY	PART#
1	4	00956
2	12	00968
3	2	01056
4	2	01057
5	4	01070
6	4	01153
7	4	01183
8	4	05594
9	6	09754
10	2	13393
12	1	14229
13	2	14509
14	2	15605
15	1	15769L
16	1	15884
17	2	05567
18	6	15951
19	6	01157
20	2	05409
21	2	15931
37	2	13678
38	2	05550




DRAWN: JAEVIN BILINSKI		ROGERS SPRAYERS INC.	
DATE CREATED:		TITLE	
PROJECT:		FRAME ASSEMBLY FY425	
FY SERIES		DWG NO	
DATE CHECKED:		15886	
5/5/2022		SCALE	
1:1		MATERIAL:	
		1 A	

FY425 Plumbing Assembly Part # 15678

PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	FTG POLY NIPPLE 1/2MNPT/MNPT
2	4	FTG POLY ELB 1/2MNPTX1/2HB
3	1	FTG POLY ELB 3/4MNPTX1/2HB
4	1	FTG POLY ELB 3/8MNPTX1/2HB
5	1	VALVE BALL POLY 1/2FNPT
6	1	FTG POLY ADPT 1/2MNPTX1/2HB
7	2	FTG POLY PLUG 1/4MNPT
8	1	FTG POLY NIPPLE 3/8MNPTX1/2MNPT
9	1	REGULATOR PRESSURE NYLON 1/2 SS
10	1	PUMP 12V DEL 7870 SERIES
11	1	STRAINER LINE 1/2 COMPACT W/MT
12	1	FLOW KIT FY425 2 COL
13	1	TANK RECT 25 USG, FARM YARDER
14	1	FTG POLY TEE 1/2 W/GUAGE PORT
15	1	NOZZLE ASBY, S TJI FC15
16	1	NOZZLE ASBY, S TJI FC15
17	2	NOZZLE ASBY, S TJI FC15



PART # 01350
LID TANK VENTED 8" W/RING



PART # 15400
LID SEAL 8"

DRAWN: DANISHAN BEJPAL		ROGERS SPRAYERS INC.	
DATE CREATED: 01/4/2016		TITLE: PLUMBING ASSY FY425	
PROJECT: FARM YARDER		DWG NO: 15678	
DATE CHECKED: 01/4/2016		SCALE: 1:1	
SHEET NO: 1		MATERIAL: NYLON	
		SIZE: A	

Flow Kit FY425 Part # 15679

PARTS LIST		
ITEM	QTY	PART#
1	2	00889
2	3	00906
3	3	01115
4	1	01281
5	2	11965
6	8	11976a
7	8	11984
8	2	11989
9	1	14423

DESCRIPTION	
FLOWMONITOR BODY ORC	
FTG WIL POLY ELB ST MORCXFORC	
FTG WIL POLY ELB ST MORCXFORC	
GAUGE PRESSURE 100PSI WET	
BALL FI. GLASS RED/BLUE (0.09-0.72)	
ORC CLIP A STYLE	
O-RING ORC FLOWMONITOR	
BALL RETAINER ORC FLOWMONITOR	
FTG WIL POLY CAP W-1/4FNPT	

PARTS LIST	
ITEM	PART#
1	01118
2	01119
3	11964
4	11965
5	11990
6	11991

DESCRIPTION	
BALL FI. POLYP BLACK (0.09-0.3)	
BALL FI. POLYP GREEN (0.05-0.18)	
BALL FI. POLYP WHITE (0.05-0.20)	
BALL FI. GLASS RED/BLUE (0.09-0.72)	
BALL FI. CELCON RED (0.09-0.30)	
BALL FI. SS (0.31-1.33)	

DRAWN: DARSHAN SEJPAL		ROGERS SPRAYERS INC.	
DATE CREATED: 7/21/2021		TITLE: FLOW KIT FY425 2 COLL	
PROJECT: 15679		DWG NO: 15679	
FY SERIES: 15679		DATE CHECKED: 7/21/2021	
SCALE: 1/1		MATERIAL: A	
P/S		SIZE: A	

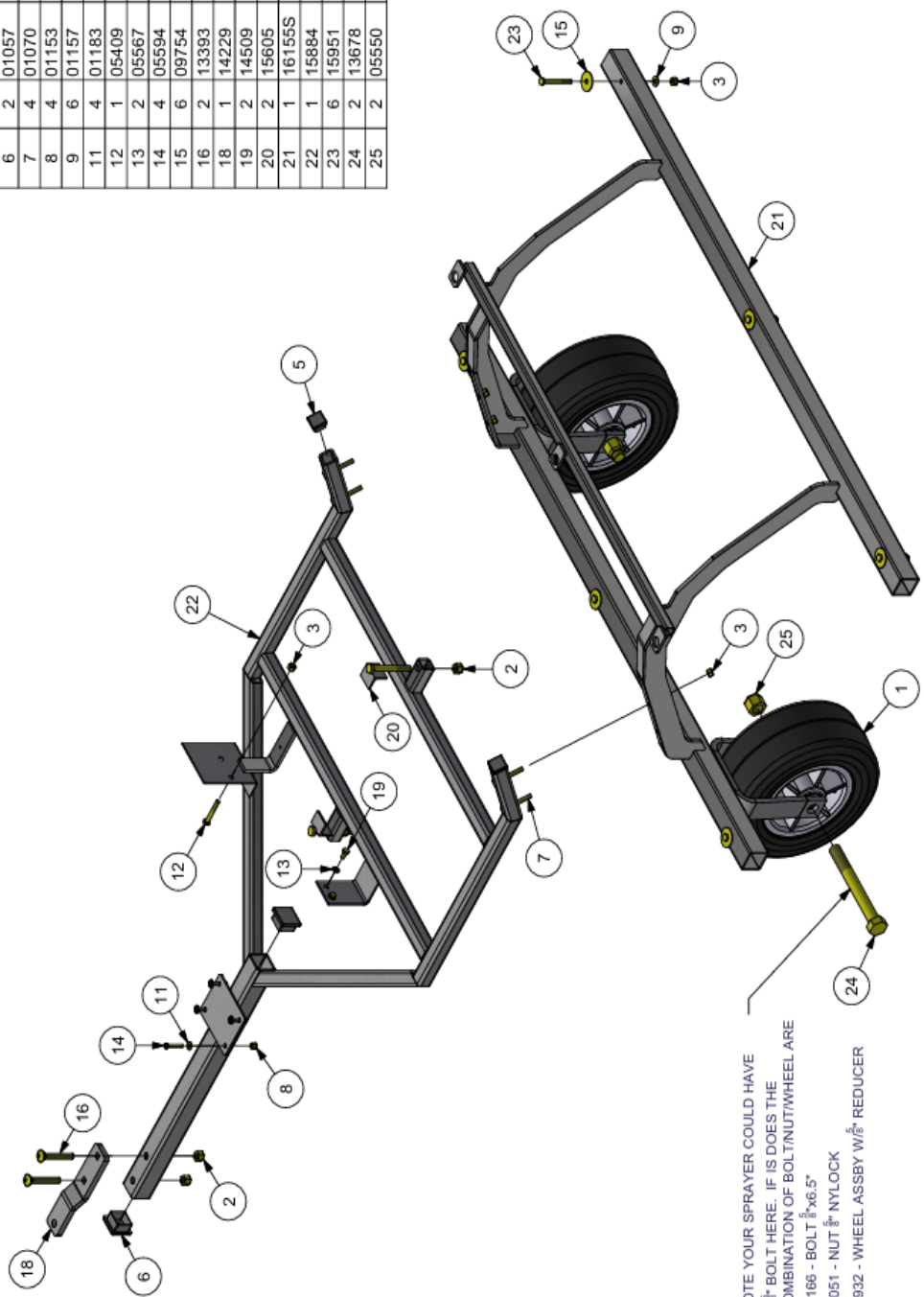
FY325 Shroud Assembly Part # 15887

PARTS LIST		
ITEM	QTY	DESCRIPTION
1	4	NUT NYLOCK 1/4NC PLD
2	8	WASHER FLAT SAE 1/4
3	1	AIRFOIL 48" PREPPED
4	2	BOLT 1/4NCX3-1/2 PLD
5	2	AIRFOIL STANDOFF BACK TUBE
6	2	AIRFOIL STANDOFF FRONT TUBE
7	2	BOLT 1/4NCX4-1/2 PLD
8	1	SHROUD FY 3NOZ W/EXT
9	1	FLEXI-SHIELD 11WX30
10	1	FLEXI-SHIELD 11WX150

DRAWN: DARSHAN SEJPAL	ROGERS SPRAYERS INC.
CREATED: 8/14/2018	TITLE: SHROUD ASSY, FY325
PROJECT: FY325	DWG NO: 15887
DATE CHECKED: 8/14/2018	SCALE: 1/1.3
	MATERIAL: 304
	SIZE: A

FY325 Frame Assembly Part # 15888

PARTS LIST		
ITEM	QTY	DESCRIPTION
1	2	WHEEL EP HD CCSS
2	4	NUT NYLOCK 3/8NC PLD
3	11	NUT NYLOCK 1/4NC PLD
5	2	PLUG PLASTIC 1 SQUARE
6	2	PLUG PLASTIC 1-1/2 SQUARE
7	4	BOLT 1/4NCX2 PLD
8	4	NUT NYLOCK #10 PLD
9	6	WASHER FLAT SAE 1/4
11	4	WASHER FLAT #10
12	1	BOLT 1/4NCX1-3/4 PLD
13	2	WASHER LOCK 1/4 PLD
14	4	SCREW MACH C #10-24X1.25
15	6	WASHER FENDER 1/4
16	2	BOLT CARRIAGE 3/8NCX2-1/2 PLD
18	1	HITCH TAB FY MODEL
19	2	BOLT M6-1.00 X 12MM HEX
20	2	TANK LOCK ASSEMBLY, 50 LIT
21	1	FRAME FY325
22	1	HITCH FY325/425 W/CLAMP
23	6	BOLT 1/4NCX2-1/4 PLD
24	2	BOLT 3/4NCX6-1/2 PLD
25	2	NUT NYLOCK 3/4NC PLD

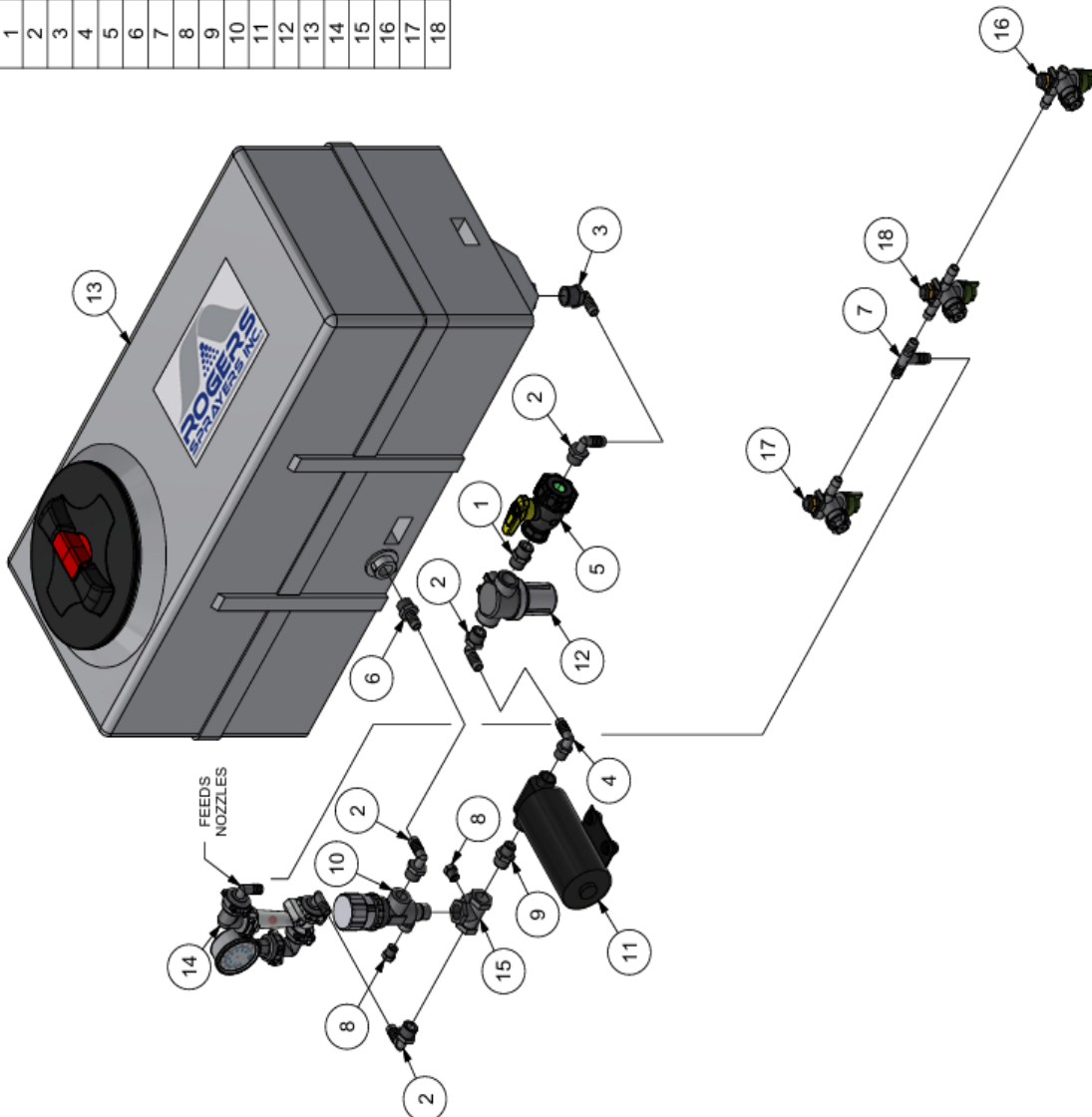


NOTE YOUR SPRAYER COULD HAVE A 3/8" BOLT HERE. IF IS DOES THE COMBINATION OF BOLT/NUT/WHEEL ARE 01166 - BOLT 3/8"x6.5" 01051 - NUT 3/8" NYLOCK 15932 - WHEEL ASSBY W/3" REDUCER

DRAWN: DARSHAN SEJPAL	ROGERS SPRAYERS INC.
DATE PREPARED: 8/14/2018	TITLE: FRAME ASSY FY325
PROJECT: FARM YARDER	DWG NO: 15888
DATE CHECKED: 8/15/2018	SCALE: 1:1.0
	MATERIAL: _____
	SIZE: _____

FY325 Plumbing Assembly Part # 14907

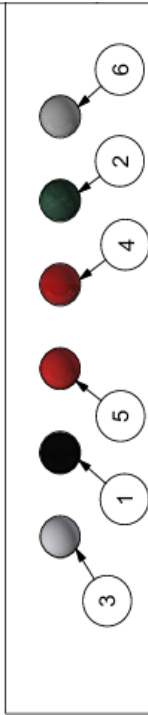
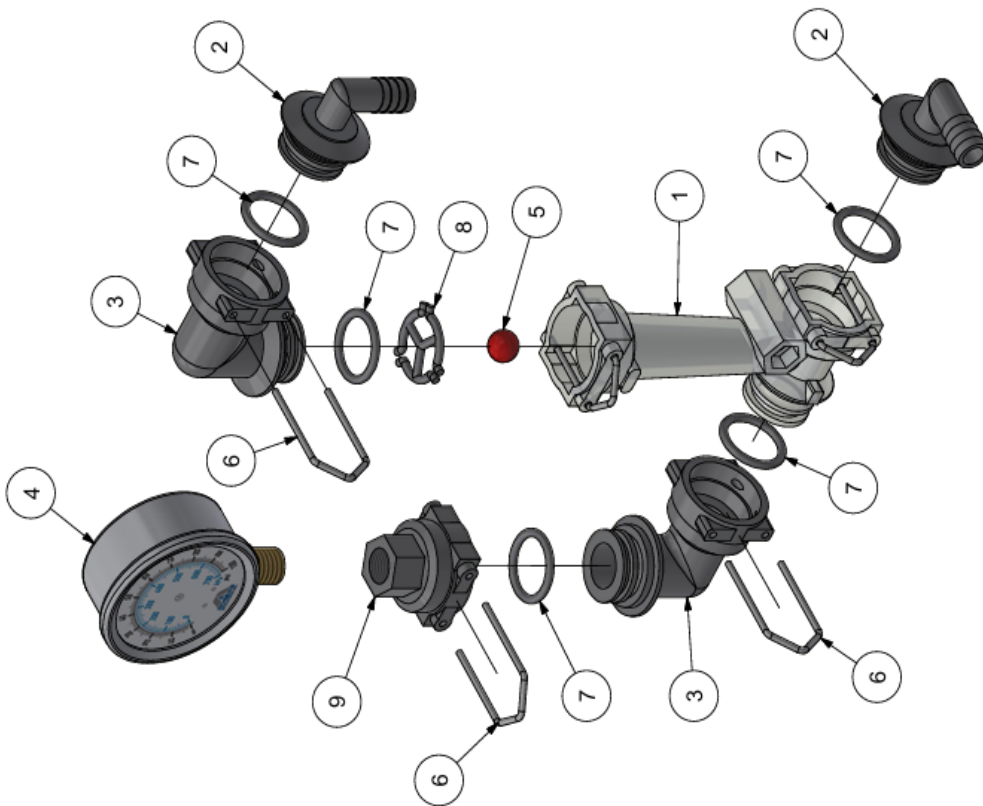
PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	FTG POLY NIPPLE 1/2MNPT/MNPT
2	4	FTG POLY ELB 1/2MNPTX1/2HB
3	1	FTG POLY ELB 3/4MNPTX1/2HB
4	1	FTG POLY ELB 3/8MNPTX1/2HB
5	1	VALVE BALL POLY 1/2FNPT
6	1	FTG POLY ADPT 1/2MNPTX1/2HB
7	1	FTG POLY TEE 1/2HB/HB/HB
8	2	FTG POLY PLUG 1/4MNPT
9	1	FTG POLY NIPPLE 3/8MNPTX1/2MNPT
10	1	REGULATOR PRESSURE NYLON 1/2 SS
11	1	PUMP 12V DEL 7870 SERIES
12	1	STRAINER LINE 1/2 COMPACT W/MT
13	1	TANK RECT 25 USG, FARM YARDER
14	1	FLOW KIT FY SERIES 1 COL
15	1	FTG POLY TEE 1/2 W/GUAGE PORT
16	1	NOZZLE ASBY, S T/JL FC15
17	1	NOZZLE ASBY, S T/JR FC15
18	1	NOZZLE ASBY, S T/JT FC15



DRAWN: DARSHAN SEJPAL	ROGERS SPRAYERS INC.
DATE: 8/14/2018	TITLE: PLUMBING ASSY FY325
PROJECT: FARM YARDER	DWG NO: 14907
DATE CHECKED: 4/3/2025	SCALE: 1:1
	MATERIAL: NYLON
	SIZE: A

Flow Kit FY325 Part # 14881

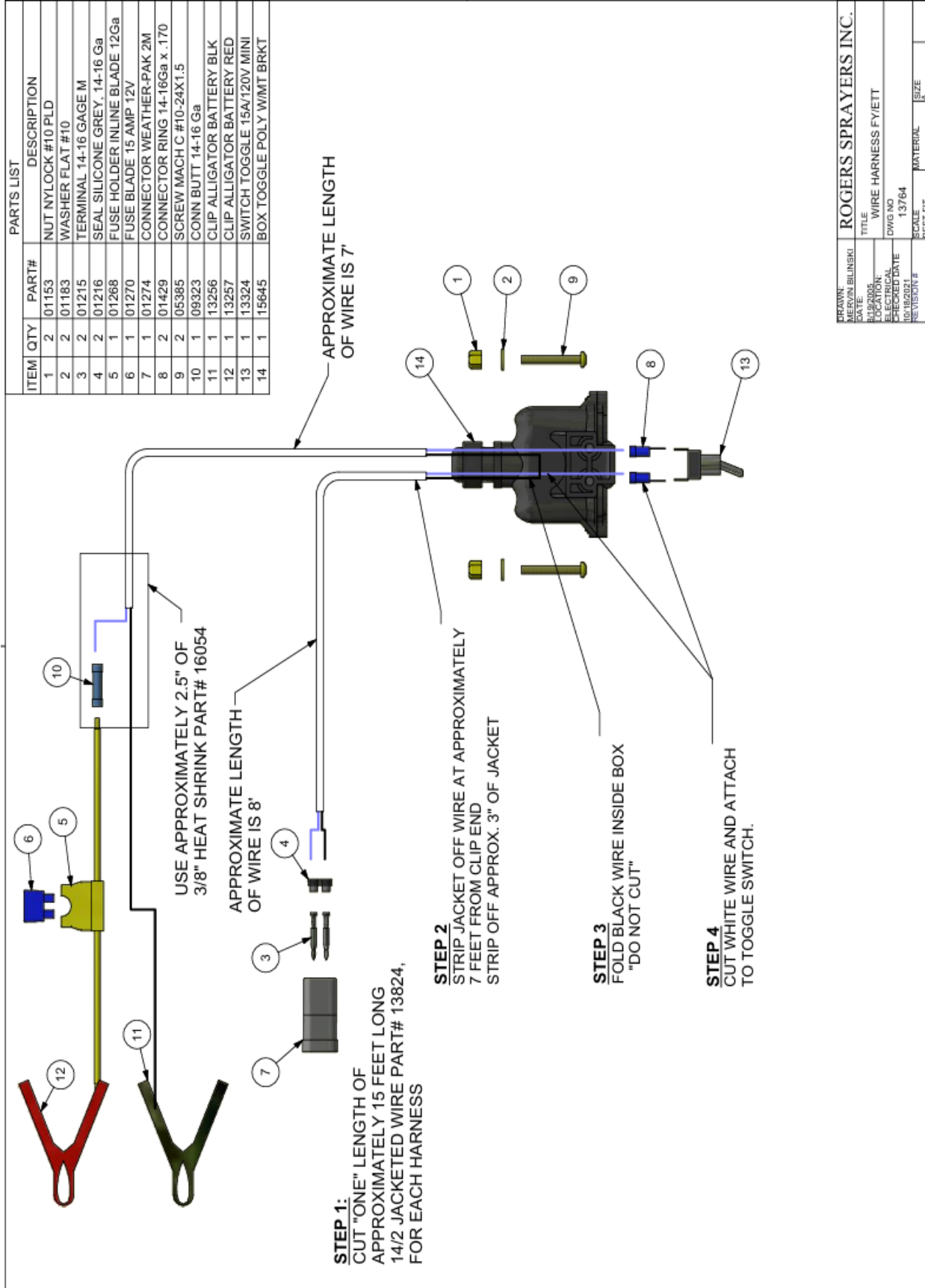
ITEM QTY		PART#	DESCRIPTION
1	1	00889	FLOWMONITOR BODY ORC
2	2	00906	FTG WIL POLY ELB ST MORCXFORC
3	2	01115	FTG WIL POLY ELB ST MORCXFORC
4	1	01281	GAUGE PRESSURE 100PSI WET
5	1	11965	BALL FI. GLASS RED/BLUE (0.09-0.72)
6	5	11976a	ORC CLIP A STYLE
7	5	11984	O-RING ORC FLOWMONITOR
8	1	11989	BALL RETAINER ORC FLOWMONITOR
9	1	14423	FTG WIL POLY CAP W-1/4FNPT



ITEM QTY		PART#	DESCRIPTION
1	1	01118	BALL FI. POLYP BLACK (0.09-0.3)
2	1	01119	BALL FI. POLYP GREEN (0.05-0.18)
3	1	11964	BALL FI. POLYP WHITE (0.05-0.20)
4	1	11965	BALL FI. GLASS RED/BLUE (0.09-0.72)
5	1	11990	BALL FI. CELCON RED (0.09-0.30)
6	1	11991	BALL FI. SS (0.31-1.33)

DRAWN: DAKSHAN SEJPAL	TITLE: ROGERS SPRAYERS INC.
DATE: 04/23/2025	TITLE: FLOW KIT FY SERIES 1 COL
LOCATION: FARM YARDER	DWG NO: 14881
REVISED BY: 4/23/2025	SCALE: 1:1
	MATERIAL: PPS1.A
	SIZE: A

ETT Wiring Harness Part # 13764



DRAWN BY: BILINSKI	TITLE: WIRE HARNESS FY/ETT
DATE: 01/20/05	LOCATION: ELECTRICIAN
REVISION #	DWG NO: 13764
	SCALE: BEST FIT
	MATERIAL: SIZE: A

Rogers Sprayers Inc. (RSI)
141 - 105th Street East
Saskatoon, SK S7N 1Z2 Canada



Tel.: (306) 975-0500 or (888) 975-8294
Fax: (306) 975-0499
Email: info@rogerssprayers.com

ROGERS SPRAYERS INC OWNER WARRANTY AGREEMENT

Windfoil Drift Containment Spray Systems (DCSS) are warranted to be free of factory defects under normal and intended use for a period of one (1) year from date of purchase to the original purchaser. Equipment must be setup in accordance with factory instructions and operated, maintained and used in accordance with the operator's manual. Equipment used for rental has a warranty period of forty five (45) days. Any customization or modifications to the original equipment voids warranty immediately.

RSI reserves the right not to warranty any items that are not directly manufactured by RSI. Such components need to be returned to the factory for inspection and tested by either RSI or the original manufacturer for defects. Examples of these parts include actuators, engines, pumps and electrical systems.

All warranty Claims must be pre-authorized by the factory!

To obtain warranty, all defective parts must be returned to the factory; in some cases, location of part might require only photo of defective part. RSI must be contacted to determine which route is required. RSI through its designated dealer or factory appointed representative will repair or replace, at its option, any or all parts that are proven to be defective free of charge.

RSI DOES NOT pay or reimburse for any travel time or investigation time to determine the defective part. Warranty labor will be based on the time required for RSI to replace only the part. Warranty labor rates and replacement times will be assessed yearly and will be included in a labor replacement sheet.

This warranty does not apply to damage caused by misuse, accident, acts of god, and/or operation without proper servicing. RSI will not be responsible for consequential damages; its liability is limited to replacement of parts.

Standard wear components (see list) such as belts, nozzles, screens, bearings, wheels, flow indicator bodies or flow indicator parts are only warranted for 30 days after original purchase.

RSI makes no other expressed, implied or statutory warranty; nor is anyone authorized to make any on our behalf.

Complete your Warranty Registration online at www.rogerssprayers.com

The warranty registration is found on the Contact page of our website. The warranty registration **MUST** be filled out completely and submitted to RSI to activate the warranty. If you would prefer, a printable copy is also available online.

It is our intention to manufacture durable, user-friendly products. Any suggestions you have as to how we may improve our equipment are greatly appreciated.



ROGERS SPRAYERS INC.

141 - 105th Street East
Saskatoon, SK S7N 1Z2
Canada

Phone: (306) 975-0500
Fax: (306) 975-0499
Email: info@rogerssprayers.com
Web: www.rogerssprayers.com